

ABSTRACT

A stent delivery system with an adjustable length balloon. The system includes a stent delivery catheter having an expandable member with an inflated length that can be adjusted according to the length of a stent to be expanded. An exterior sheath  
5 having an expandable distal tip is disposed about the expandable member such that the sheath can be longitudinally adjusted so as to expose a desired length of the expandable member. The exposed length of the expandable member provides an effective working length required to expand the stent for deployment. Additionally, where subsequent expansions of the deployed stent may be necessary, post dilatation  
10 may be achieved by re-positioning the catheter and re-adjusting the sheath to form an effective working length of the expandable member which corresponds to the length of the stent that needs further expansion.